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**FEDERAL-STATE-PRIVATE
COOPERATIVE SNOW SURVEYS**



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WATER SUPPLY OUTLOOK FOR UTAH

Prepared by

U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE

Collaborating with

UTAH STATE DEPARTMENT OF NATURAL RESOURCES -- DIVISION OF WATER RIGHTS

In cooperation with U.S. Forest Service, Bureau of Reclamation,
Utah Fish and Game Dept., Utah State University, U.S. National
Park Service, U.S. Geological Survey, and other Federal, State,
and private organizations.

AS OF
JUNE 1, 1972

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters of key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO NUMBER ORC 221-3

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, Western Regional Technical Service Center, Room 209, 701 N. W. Glisan, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	P. O. Box "F", Palmer, Alaska 99645
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 970, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1218 S. W. Washington St., Portland, Oregon 97205
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84111
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82601

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia



WATER SUPPLY OUTLOOK FOR UTAH

and
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Issued by

KENNETH E. GRANT

ADMINISTRATOR
SOIL CONSERVATION SERVICE
WASHINGTON, D.C.

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STATE CONSERVATIONIST
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SALT LAKE CITY, UTAH

In Cooperation with

HUBERT C. LAMBERT

STATE ENGINEER
DIVISION OF WATER RIGHTS
UTAH STATE DEPT. OF NATURAL RESOURCES

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Report prepared by

BOB L. WHALEY, Snow Survey Supervisor

SOIL CONSERVATION SERVICE
SNOW SURVEY SECTION
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SALT LAKE CITY, UTAH 84111

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WATER SUPPLY OUTLOOK

as of
JUNE 1, 1972

* * * * *
* The 1972 Water Supply Outlook varies from "very poor" in*
* southern Utah to "excellent" in northern Utah. May pre-*
* cipitation varied from 0 to about half average and June *
* 1st snow measurements indicate snow remaining at only *
* the highest areas of northern Utah. Reservoir storage *
* is still 136% of average. *
* * * * *

Snow cover remained at only the higher elevations of the northern half of the State. The upper elevations of the Uintah mountains still had above average snow cover on June 1 and the higher elevation snow courses on the Smith's Fork in Wyoming indicated heavier than usual water contents. Other watersheds in Utah experienced heavier snow melt than usual in May but much of the melt did not produce as much streamflow as expected due to the extremely dry weather causing heavier than average evaporation losses.

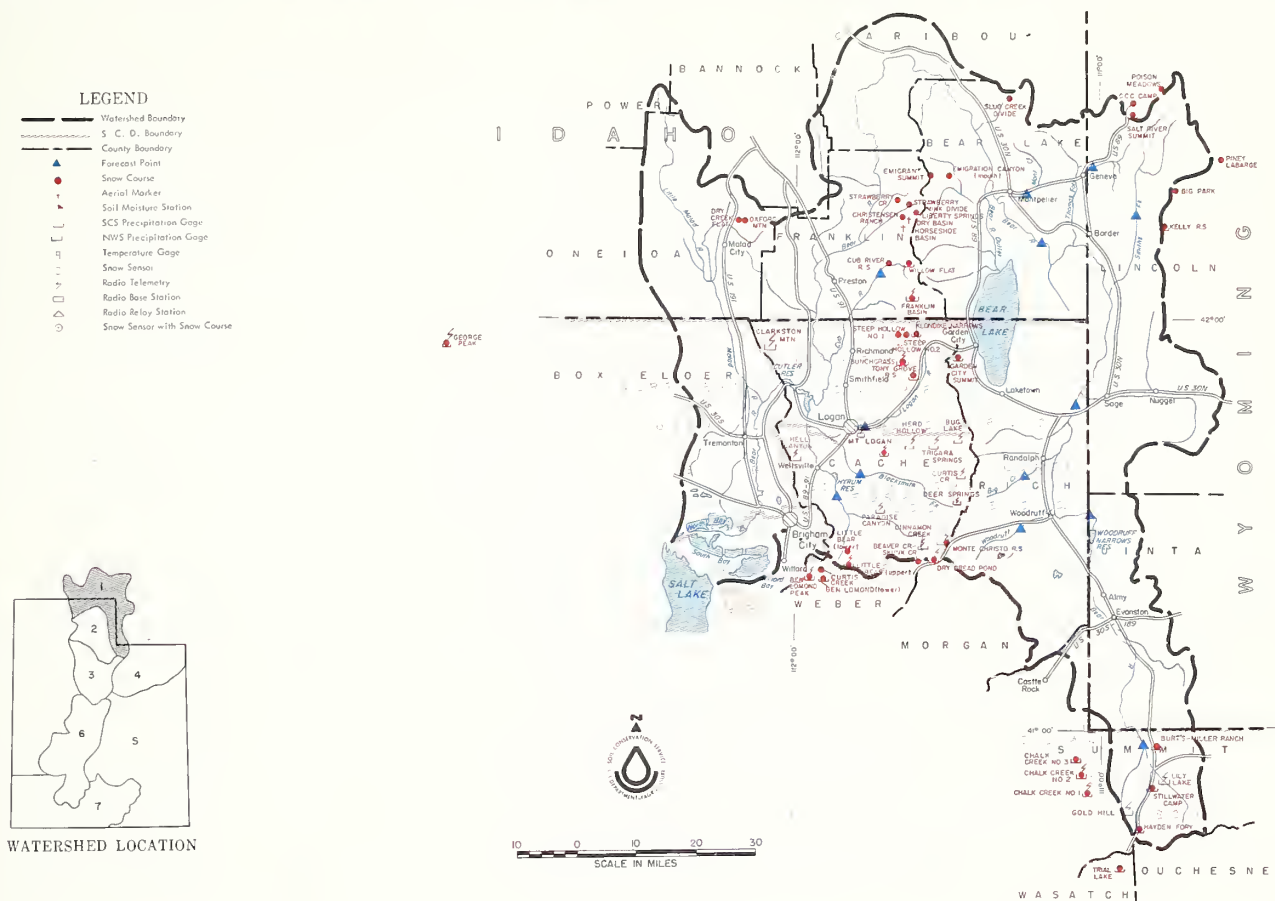
Reservoir storage in 14 of Utah's major reservoirs, excluding Colorado River facilities, was 136% of the June 1 average. Otter Creek had 37,300 acre feet(124%) and Sevier Bridge 128,200 acre feet(204%) and Gunnison had 10,400 acre feet on June 1st for Sevier River water users. Utah Lake had 795,700 acre feet and was about 0.9 foot below Compromise level. Strawberry held 221,700 acre feet(150%) on June 1.

Streamflow forecasts issued May 1 have been reduced 5 to 20% as a result of the lack of precipitation in May. Streamflow is expected to range from about 30% of average in southern Utah to about 200% in northern Utah. Streamflow peaks were reached 2 to 3 weeks earlier than expected this year. Lower elevation range feed conditions are very poor in the southern half of the State. June rains are desperately needed to improve conditions enough to allow livestock to remain on some lower elevation range areas.

WATER SUPPLY OUTLOOK

BEAR RIVER BASIN in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS



JUNE 1, 1972

The Water Supply Outlook for the Bear River is "excellent".

Snow cover is less than last year on June 1, as a result of warm, dry weather in May causing earlier melt than usual. Many higher elevation snow courses still had 5 to 40 inches of snow water to melt. A special survey was taken by helicopter, May 31, on the Smith's Fork and Thomas Fork which verified 8 to 40 inches of snow water remaining on those watersheds at high elevations. Only elevations above about 8,000 feet still contained above average snow water content on the Logan River.

Reservoir storage is still above average in Bear Lake (130%) with 1,301,400 acre feet in storage. Woodruff Narrows and Porcupine are full and Hyrum had 13,300 acre feet as of June 1.

Less than half average May precipitation has caused reductions in streamflow forecasts for the May-July period. Forecasts were reduced 8 to 18% but still range from 127% of average for the Bear at Utah-Wyoming Line to about 226% at Randolph and 174% at Harer, Idaho. Logan river is now expected to produce 164% of the May-July average and was nearing the mean daily peak of about 1400 cfs on June 2 or 3rd.

BEAR RIVER BASIN

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average
UPPER BEAR RIVER (Above Harer, Idaho)						2 yrs. ago
Big Park x	8700	5/31	22	8.5	- -	---
Burts-Miller Ranch	7900	5/25	0	0.0	0.0	0.0
CCC Camp	7500	Not Measured				
Hayden Fork	9400	5/25	0	0.0	5.9	5.9
Kelly Ranger Station	8200	5/31	18	8.4	- -	- -
LaBarge G.S.	9000	5/31	52	29.0	--	--
Monte Cristo R.S.	8960	5/31	17	8.4	25.4	17.0
Poison Meadows x	8500	5/31	56	29.6	- -	- -
Salt River Summit x	7900	Not Measured				
Stillwater Camp	8550	5/25	0	0.0	0.0	0.0
Trial Lake x	9800	5/30	40	21.3	29.9	17.8
Willow Creek Summit	8300	5/31	81	40.2	--	--
LOWER BEAR RIVER (Below Harer, Idaho)						
Beaver Crk-Skunk Crk	7150	5/31	0	0.0	0.0	0.0
Christensen Ranch	5600	Not measured				
Cub River R.S.	5400	Not measured				
Dry Bread Pond x	8230	5/31	0	0.0	2.0	1.8
Emigrant Summit	7350	Not measured				
Garden City Summit	7600	5/27	11	5.1	12.3	3.8
Klondike Narrows	7400	5/27	0	0.0	2.7	0.0
Liberty Spring	8600	Not measured				
Little Bear (lower)	6000	Not measured				
Little Bear (upper)	6550	Not measured				
Monte Cristo R.S.	8960	5/31	17	8.4	25.4	17.0
Steep Hollow #1	8500	5/27	65	33.4	48.7	32.9
Steep Hollow #2	7700	5/27	10	5.0	20.8	11.7
Strawberry Creek	5800	Not measured				
Strawberry Mink Divide	6800	Not measured				
Tony Grove R.S.	6250	5/27	0	0.0	0.0	0.0
Willow Flat	6100	5/31	0	0.0	--	0.0
Slug Creek Divide	7225	Not measured				

PRECIPITATION (Inches)

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. OCT 1 TO DATE		
		Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
<u>BEAR RIVER</u>							
Burt's - Miller Ranch	7900	5/25	1.07	--	15.77	--	--
Chalk Creek #1 x	9100	No Reading					
Chalk Creek #2 x	8000	No Reading					
Chalk Creek #3 x	7500	5/30	1.05	2.18b	22.63	18.82b	120
Cinnamon Crk (3)	7300	6/2	0.49	--	29.02	--	--
Clarkston (3)	6300	6/2	0.42	--	30.04	--	--
Curtis Creek (3)	8450	No Reading					
Dry Bread Pond	8230	5/31	0.27	3.05*	29.65	26.95*	110
Franklin Basin (3)	8000	6/2	0.96	--	39.31	--	--
Garden City Summit	7600	5/27	0.82	1.84*	32.96	23.53	140
Gold Hills (3)	10000	No Reading					
Hayden Fork	9300	5/25	1.41	--	35/30	--	--
Kelly R.S.	8200	No Reading					
Klondike Narrows (3)	7400	6/2	0.79	--	39.58	--	--
Little Bear (upper)	6850	No Reading					
Monte Cristo #2	8960	5/31	0.46	2.79b	39.65	33.10b	120
Sagebrush Flat x	6300	5/30	0.13	2.21b	23.03	18.20	127
Salt River Summit	7900	Not Scheduled					
Stillwater Camp	8550	5/25	1.18	2.40b	21.20	17.92*	118
Tony Grove R.S. (3)	6250	No Reading					
Trial Lake x	9800	5/31	0.85	3.15	37.13	28.20	132
Willow Flat	6100	5/31	0.45	3.27b	33.25	28.44*	117

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Streamflow forecasts for the May-June period was reduced 10 to 15% in this area due to well below average May precipitation, but still range from about 120% of average on the upper Weber to better than 200% for Lost Creek. The remainder of the flow to come out in June is expected to be less than forecast on May 1, unless above average precipitation occurs during June. As previously mentioned, the snow pack melted faster than expected in May leaving less to produce streamflow in June and streams are now expected to recede faster than forecasts indicated on May 1.

SNOW

- ** - Snow pillow reading cooperatively by Park City Resort
- b - Average of all past records within the 15-year period, but less than 15 years
- x - Adjacent drainage
- (2) - Data obtained by radio
- (3) - Data obtained by radio - USU-SCS cooperative sites

PRECIPITATION (Inches)

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. OCT. 1 TO DATE		
		Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
<u>Ogden River</u>							
Ben Lomond Peak	8000	No Reading					
Ben Lomond(lower)	6000	Gage Molested					
Ben Lomond Trail	6000	5/30	0.72	3.73b	42.00	35.45*	118
Causey Dam	5500	5/30	0.20	2.03b	24.79	- -	- -
Dry Bread Pond	8230	5/31	0.27	3.05*	29.65	26.95*	110
Monte Cristo #2 x	8960	5/31	0.46	2.79b	39.65	33.10b	120
Sagebrush Flat	6300	5/30	0.13	2.21b	23.03	18.20b	127
<u>Weber River</u>							
Chalk Creek #1 (3)	9100	No Reading					
Chalk Creek #2 (3)	7900	No Reading					
Chalk Creek #3	7500	5/30	1.05	2.18b	22.63	18.82b	120
Farmington G.S.	7500	5/31	0.39	3.82	48.07	36.12	133
Farmington Rice	7000	5/31	0.27	3.65	42.92	33.57	128
Horse Ridge	8260	6/1	0.30	- -	40.35	- -	- -
Lost Creek Reservoir	6125	Not Measured					
Mt. Dell Dam x	5500	5/31	0.75	2.13	18.32	16.85	109
Parley's Canyon Smt.	7500	5/31	0.54	2.80	33.04	26.84*	123
Redden Mine (upper)	9000	5/30	0.35	- -	30.75	- -	- -
Sargeant Lakes (3)	8400	No Reading					
Silver Lake(Brighton)x	8725	5/31	0.05	5.47	37.68	36.20	104
Smith & Morehouse	7600	5/26	0.50	2.58*	26.45	22.57	117
Trial Lake x	9800	5/31	0.85	3.15	37.13	28.20*	132

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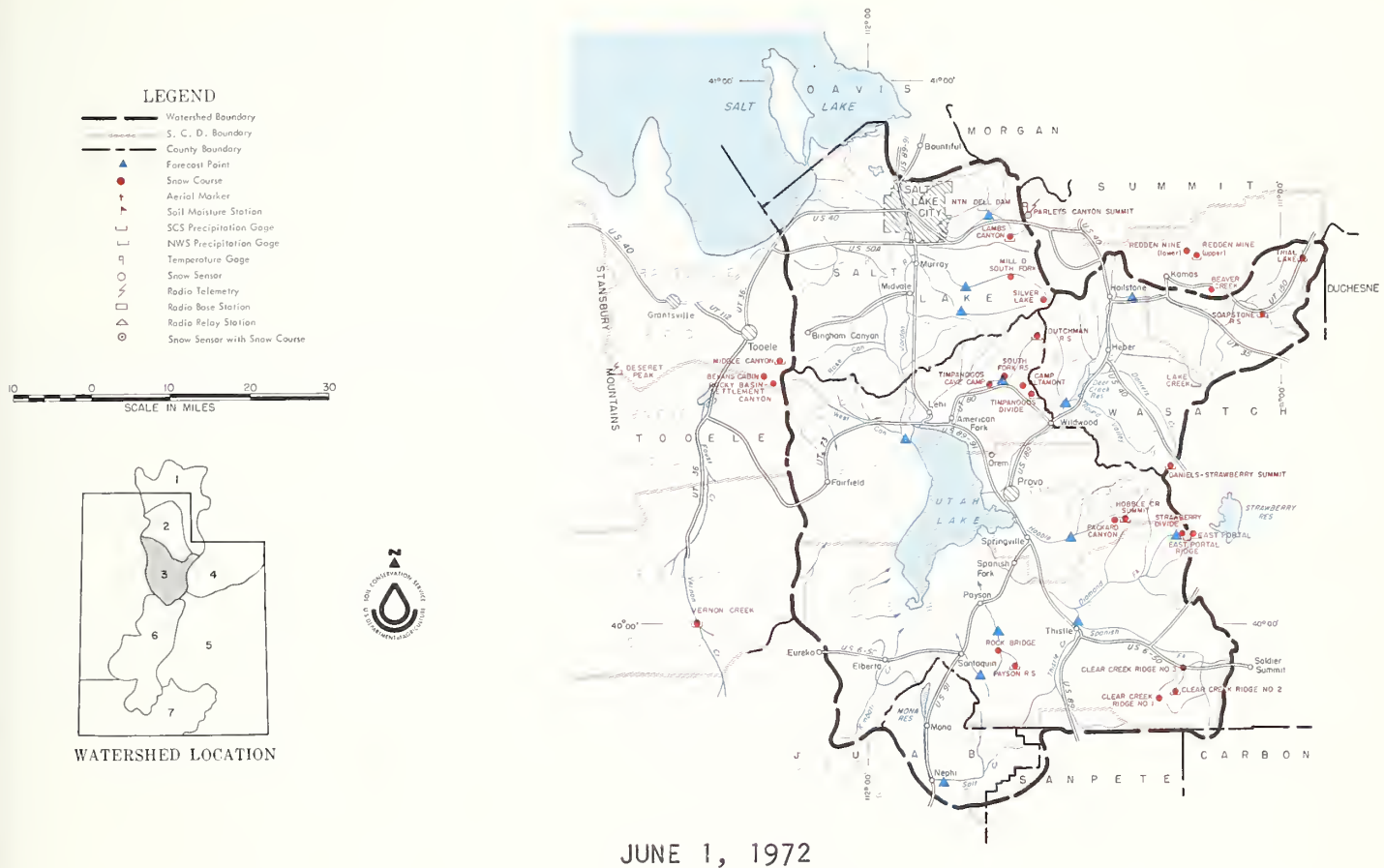
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WATER SUPPLY OUTLOOK

UTAH LAKE, JORDAN RIVER and TOOELE VALLEY WATERSHEDS in UTAH

**UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS**



The Water Supply Outlook for Utah Lake, Jordan River and Tooele Watersheds is still "near average".

Snow cover remains at only the highest and most protected areas of the watersheds. Trial Lake snow course had the only measureable snow and it had less than last year but had 20% more water content than the average for June 1. May precipitation varied from 11 to 30% of average at stations which had any measureable precipitation. Radio readings on Farmington Upper and Parley's Summit data sites indicated snow pillows at these sites melted bare June 2, and May 9, respectively.

Reservoir storage is still well above average. Strawberry held 221,700 acre feet(150%) on June 1 and Deer Creek held 150,200 acre feet(119%). Utah Lake was reported to have 809,800 acre feet(136%) and about 0.9 foot below Compromise.

Streamflow forecasts for the May-July period were reduced by low May precipitation and are now expected to range from 81% of average for Spanish Fork to about 150% for Parley's Creek. Flows on all other streams in the area are expected to drop 5 to 10% from May 1 forecasts and range from 85 to 120% of the May-July average.

UTAH LAKE, JORDAN RIVER & TOOELE WATERSHEDS

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	xxxxxx
						2 yrs. ago
<u>UTAH LAKE</u>						
Clear Creek Ridge #2	8000	5/30	0	0.0	0.0	0.0
Daniels Strawberry Smt.	8000	5/31	0	0.0	0.0	0.0
Dutchman R.S.	7560	5/30	0	0.0	0.0	0.0
Hobble Creek Summitt	7420	5/30	0	0.0	0.0	0.0
Payson R.S.	8050	5/31	0	0.0	0.0	0.0
Soapstone R.S.	7800	5/30	0	0.0	0.0	0.0
Trial Lake	9800	5/30	40	21.3	29.9	17.8
 <u>JORDAN RIVER & TOOELE VALLEY</u>						
Lamb's Canyon	6600	5/31	0	0.0	0.0	0.0
Middle Canyon - Tooele	7000	5/26	0	0.0	0.0	0.0
Parley's Canyon Smt. x	7500	5/31	0	0.0	0.0	0.0
Vernon Creek	7500	5/26	0	0.0	0.0	0.0
Timpanogos Divide	8140	3/30	0	0.0	0.0	0.0
Mill D South Fork	7400	5/30	0	0.0	- -	- -
Lamb's Canyon #2	7400	5/31	0	0.0	- -	- -
Silver Lake (Brighton)	8725	5/30	0	0.0	9.0	15.1

PRECIPITATION (Inches)

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. OCT. 1 TO DATE		
		Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
<u>UTAH LAKE</u>							
Clear Creek Ridge #2	8000	5/30	0.77	2.23b	22.95	19.52*	118
Daniels-Strawberry Smt.	8000	5/31	0.39	1.92*	22.72	21.75*	104
Dutchman R.S.	7560	5/30	0.20	2.67b	29.45	25.84b	114
Hobble Creek Smt.	7420	5/30	0.28	- -	22.15	- -	--
Payson R. S.	8050	5/31	0.38	2.23b	21.21	22.79	93
Soapstone R.S.	7800	5/30	0.45	2.08*	23.21	19.69*	118
Timpanogos Divide	8200	5/31	0.30	2.77	31.50	30.24	104
Trial Lake	9800	5/31	0.85	3.15	37.13	28.20*	132
<u>JORDAN RIVER & TOOELE VALLEY</u>							
Lamb's Canyon #2	7400	5/31	0.51	- -	32.57	- -	--
Middle Canyon	7000	5/26	Gage molested		- -	23.90*	--
Mt. Dell Dam	5500	5/31	0.75	2.13	18.32	16.85	109
Parley's Canyon Smt.	7500	5/31	0.54	2.80	33.04	26.84*	123
Silver Lake (Brighton)	8725	5/31	0.05	5.41	37.68	36.20	104
Vernon Creek	7500	5/26	0.35	- -	18.05	- -	--

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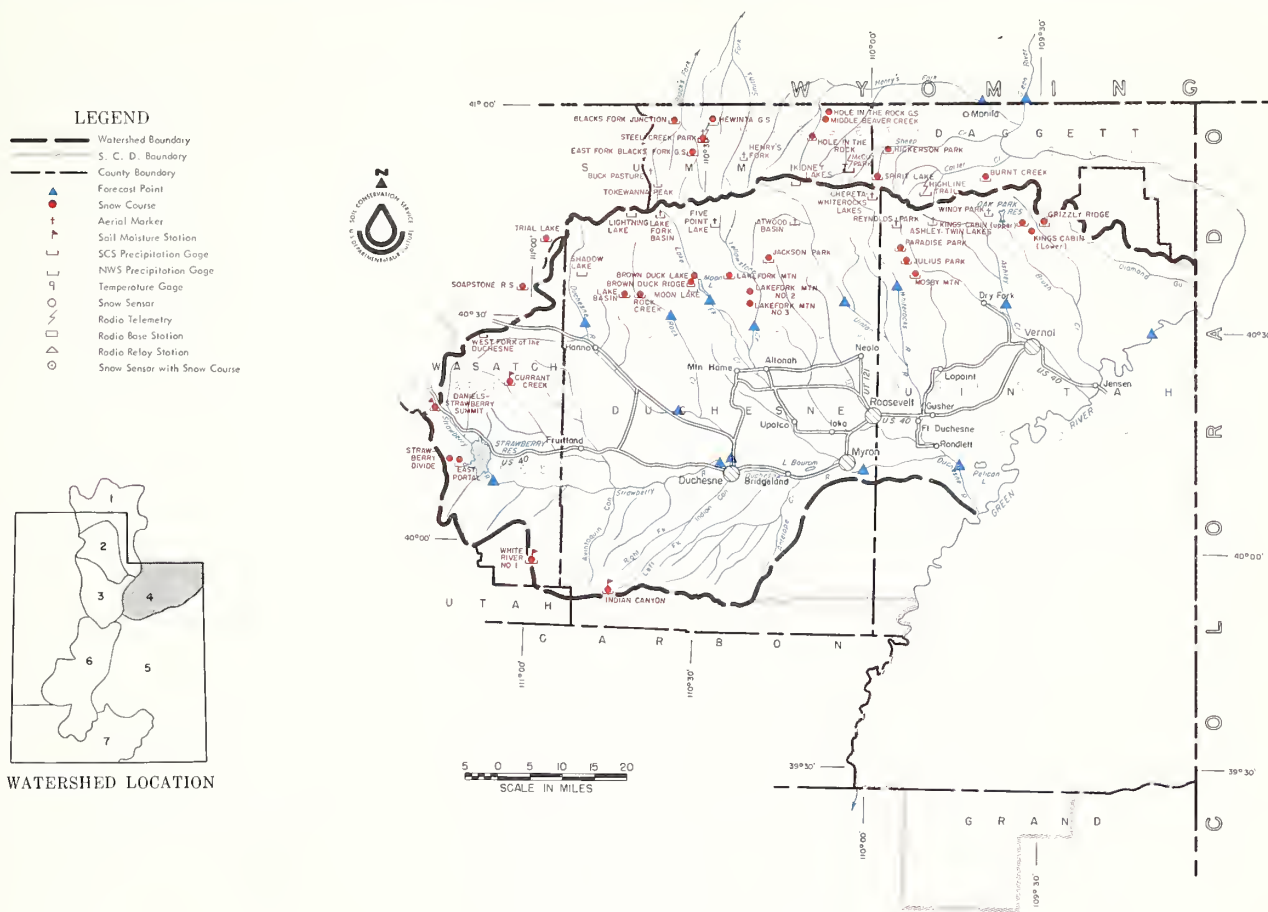
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WATER SUPPLY OUTLOOK

UINTAH BASIN and DAGGETT SCD's in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS



JUNE 1, 1972

The Water Supply Outlook for Uintah Basin and Daggett SCD's is "near average".

Snow cover on the Uintahs as of the end of May was generally above average but less than last year at this time. The aerial snow depth markers were flown again May 26 and indicated good amounts of snow remaining on the north side and the west end of the south side of the Uintahs but snow remained only in shaded locations on Ashley and Brush Creeks above Vernal. High elevation snow melt was well underway in this area but had not begun on the upper Uintah, Yellowstone, Lakefork, Rock Creek or upper Duchesne rivers.

Reservoirs are still above average. Steinaker had 27,900 acre feet, Flaming Gorge 2,902,000 acre feet and rising about .3 to .4 foot per day; Moon Lake had 21,200 acre feet and Starvation held 141,200 acre feet as of June 1.

Precipitation during May was only 15 to 60% of average on the Uintahs and streamflow forecasts dropped 7 to 13% for the May-July period, although high elevation snow on Yellowstone, Lakefork and Rock Creek is expected to hold those streams up to near average as forecast on May 1.

UINTAH BASIN & DAGGETT SCD's

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	2 yrs. ago
<u>UINTAH BASIN SCD</u>						<u>2 yrs. ago</u>
Brown Duck Ridge	10800	5/24	45	20.3	--	--
Currant Creek	7800	5/19	0	0.0	--	--
Daniels Strawberry Smt.	8000	5/31	0	0.0	0.0	0.0
Indian Canyon	9100	5/18	0	0.0	0.0	0.0
Jackson Park	11300	5/25	20	7.4	--	--
Julius Park	9800	5/19	10	4.1	3.8	0.0
Lakefork Mountain	10200	5/23	10	3.2	4.1	0.0
Mosby Mountain	9500	5/19	0	0.0	2.6	0.1
Paradise Park	10100	5/19	24	8.8	10.4	2.3
Rock Creek	7900	5/18	0	0.0	0.0	0.0
Soapstone R.S. x	7800	5/30	0	0.0	0.0	0.0
Trial Lake x	9800	5/30	40	21.3	29.9	17.8
White River #1	8550	5/24	0	0.0	0.0	0.0
<u>DAGGETT SCD</u>						
Black's Fork Jct.	8925	5/25	0	0.0	0.0	0.0
Burnt Creek	7900	5/22	0	0.0	0.0	0.0
E. Fk. Black's Fork G.S.	9300	5/25	0	0.0	0.0	0.0
Hewinta Guard Station	9500	5/25	0	0.0	0.0	3.6
Hickerson Park	9100	5/22	0	0.0	0.0	0.0
Spirit Lake	10300	5/22	25	10.1	13.0	4.1
Steel Creek Park	9900	5/25	43	16.6	--	--
<u>UINTAH BASIN - Aerial Markers</u>						
Ashley Twin Lakes A	10500	5/26	24	9.1	--	--
Atwood Basin A	10250	5/26	0	0.0	--	--
Buck Pasture A	9700	5/26	26	10.1	--	--
Chepeta-Whiterocks Lakes A	10300	5/26	35	13.3	--	--
Five Point Lake A	11000	5/26	27	8.6	--	--
Henry's Fork A	10000	5/26	28	10.9	--	--
Lakefork Basin A	11100	5/26	51	16.3	--	--
Reynolds Park A	10400	5/26	10	3.8	--	--
Windy Park A	9400	5/26	0	0.0	--	--

PRECIPITATION (Inches)

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. OCT. 1 TO DATE		
		Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
<u>UINTAH BASIN SCD</u>							
Currant Creek	7800	5/19	0.96	- -	20.81	- -	--
Daniels-Strawberry Smt. x	8000	5/31	0.39	1.92*	22.72	21.75	104
East Portal Ridge x	7800	5/31	0.98	2.87	21.59	23.42*	92
Grizzly Ridge	8500	5/31	1.32	--	20.03	--	--
Indian Canyon	9100	5/18	0.65	2.00b	18.40	17.41b	106
Julius Park	9800	5/19	1.17	2.53*	20.17	16.76*	120
King's Cabin (upper)	8730	5/31	1.52	2.47b	18.34	15.35b	119
Lakefork Mountain	10200	5/23	1.42	2.54*	20.60	16.18*	127
Moon Lake	8150	5/31	0.90	1.76	11.76	10.77	109
Mosby Mountain	9500	5/19	1.73	--	18.06	--	
Paradise Park	10100	5/19	1.22	2.73b	21.70	18.25*	119
Rock Creek	7900	5/18	0.30	2.01b	17.27	14.57b	118
Soapstone R.S. x	7800	5/30	0.45	2.08*	23.21	19.69*	118
Trial Lake x	9800	5/31	0.85	3.15	37.13	28.20*	132
White River #1 x	8550	5/24	0.73	1.92b	17.28	17.51*	99
<u>DAGGETT SCD</u>							
Black's Fork Jct.	8925	5/25	1.25	2.19b	20.26	16.53*	123
Burnt Creek	7900	5/22	0.93	--	16.59	--	
East Fk. Black's Fk. G.S.	9300	5/25	1.44	2.63b	20.85	16.64b	125
Hewinta Guard Station	9500	5/25	1.30	2.74b	22.20	17.69b	125
Hickerson Park	9100	5/22	3.02	--	16.58	--	
Spirit Lake	10300	5/22	2.09	3.76b	24.94	22.09*	113
Steel Creek Park (3)	9900	6/2	1.11	--	23.79	--	--

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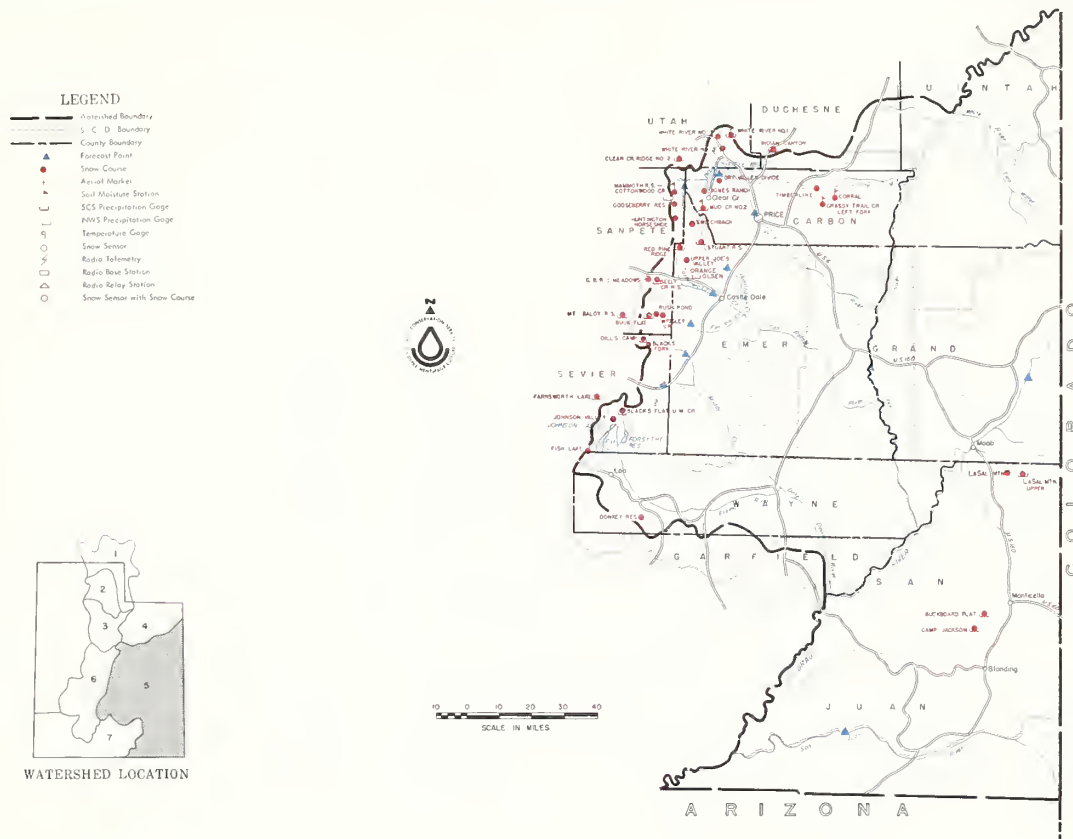


"The Conservation of Water begins with the Snow Survey"

WATER SUPPLY OUTLOOK

CARBON, EMERY, WAYNE, GRAND and SAN JUAN COUNTIES in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS



JUNE 1, 1972

The 1972 Water Supply Outlook for southeastern Utah ranges from "near average" for water users with reservoir storage to "poor" for those depending on natural streamflow.

All snow courses in this area were bare before June 1. The only areas with snow remaining were the most protected east and north slopes high on the watersheds.

Reservoir storage is above average and increasing with a late rise in streamflow the last of May and first few days of June. Scofield had 53,000 acre feet (137%) on June 1. Joe's Valley had 47,800 acre feet and Mill Site had about 9,800 acre feet as of June 5. Both Mill Site and Joe's Valley were reported to be gaining about one foot of storage per day as of June 5.

Streamflow forecasts for the May-July period are now expected to be about 10 to 15% less than on May 1 due to only about one third of normal May precipitation over most of the area. Warm weather the last week of May and showers in early June have increased streamflow on the San Rafael river tributaries which may hold May-July volumes up to about as forecast on May 1. Forecasts are still expected to range from 45 to 80% of the May-July average for the 1953-67 period.

CARBON, EMERY, WAYNE, GRAND, & SAN JUAN COUNTIES

SNOW

SNOW		THIS YEAR			PAST RECORD	
DRAINAGE BASIN and/or SNOW COURSE		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average
						2 yrs. ago
<u>PRICE RIVER</u>						
Gooseberry Reservoir	8700	5/30	0	0.0	0.0	0.0
Indian Canyon x	9100	5/18	0	0.0	--	--
Mammoth R.S. Ctwd. Crk. x	8800	5/30	0	0.0	0.0	0.0
Mud Creek #2	8300	5/24	0	0.0	--	--
White River #1	8550	5/24	0	0.0	0.0	0.0
<u>SAN RAFAEL RIVER</u>						
Buck Flat	9400	5/26	0	0.0	0.0	0.6
Gooseberry Reservoir x	8700	5/30	0	0.0	0.0	0.0
Orange Olsen	7300	5/30	0	0.0	--	--
Red Pine Ridge	9400	5/30	0	0.0	0.0	0.0
Stuart R.S.	7950	5/30	0	0.0	0.0	0.0
<u>FREMONT RIVER</u>						
Black's Flat - U.M. Creek	9250	5/25	0	0.0	0.0	0.2
Mt. Baldy R.S. x	9500	5/26	5	2.2	19.3	18.3
Diels' Camp	9200	5/26	0	0.0	--	--
<u>SOUTHEASTERN UTAH DRAINAGES</u>						
Buckboard Flat	9000	5/26	0	0.0	0.0	0.0
Camp Jackson	8600	5/30	0	0.0	0.0	0.0
LaSal Mountain	8800	5/30	0	0.0	0.0	0.0

PRECIPITATION (Inches)

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. OCT. 1 TO DATE		
		Date of Reading	Month's Precipitation	Average +	This Year	Average +	Percent of Average
<u>PRICE RIVER</u>							
Clear Creek Ridge #2	8000	5/30	0.77	2.23b	22.95	19.52*	118
Gooseberry Reservoir	8700	5/30	0.80	2.75*	19.14	23.38*	82
Indian Canyon	9100	5/18	0.65	2.00b	18.40	17.41b	106
Mammoth R.S. #2	8600	5/30	0.80	2.55*	19.41	24.30*	80
Mud Creek	8300	5/24	0.40	--	15.00	--	
White River	8550	5/24	0.73	1.92b	17.28	17.51*	99
<u>SAN RAFAEL RIVER</u>							
Buck Flat	9400	5/26	0.75	2.44b	19.35	21.81*	89
G.B.R.C. Meadows x	10000	5/31	1.15	3.21	25.50	28.30	90
Gooseberry Reservoir x	8700	5/30	0.80	2.75*	19.14	23.38*	82
Orange Olsen	7300	5/30	0.10	--	10.40	--	
Red Pine Ridge	9400	5/30	0.50	2.43b	24.53	25.05*	98
Stuart R.S.	7950	5/30	0.35	--	16.50	--	
<u>FREMONT RIVER</u>							
Black's Flat-U.M. Creek	9250	5/25	0.66	2.19b	14.06	16.53*	85
Fish Lake	8700	5/25	0.54	1.50b	10.10	11.54b	88
Widtsoe-Escalante #3 x	9500	5/24	0.07	2.00*	14.26	17.19*	83
<u>SOUTHEASTERN UTAH DRAINAGES</u>							
Buckboard Flat	9000	5/26	0.20	2.25b	21.60	22.11b	98
Camp Jackson	8600	5/30	0.10	1.83*	17.23	18.42*	94
LaSal Mountain (upper)	9400	5/30	0.70	2.87b	16.35	19.73*	83

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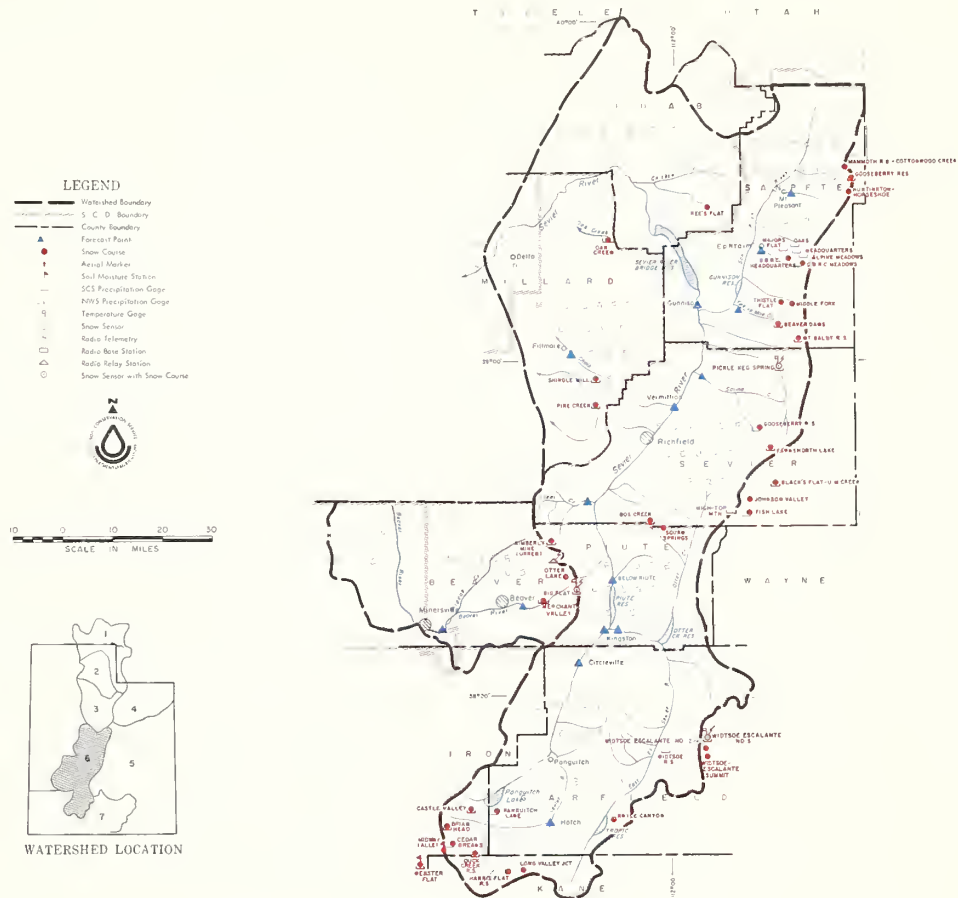


"The Conservation of Water begins with the Snow Survey"

WATER SUPPLY OUTLOOK

SEVIER RIVER BASIN including BEAVER RIVER in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS



JUNE 1, 1972

The Water Supply Outlook for Sevier and Beaver River Basins is "below average to poor" for areas without reservoir storage. Water users with reservoir storage are expected to have a "near average" water supply.

Only one snow course, GBRC Meadows on the San Pitch, had measureable snow as of the end of May and it had only 3 inches containing 1.2 inches water content. Last year it had 20.6 inches of water at this time.

Reservoir storage was drawn down heavily in May as a result of the dry weather but still remains well above average at Otter Creek and Sevier Bridge. Otter Creek held 37,300 acre feet (124%) and Sevier Bridge held 128,200 acre feet (204%) on June 1. Gunnison Reservoir held 10,400 acre feet on June 1. Heavy reservoir use this summer is expected to leave a low carryover in Sevier River reservoirs for next season.

The lack of May precipitation has again lowered streamflow forecasts for the May-July period another 6-20%. Streamflow is expected to range from 30 to 50% of the May-July average on the Sevier and Beaver Rivers this year. Those with storage water are expected to have a near average supply. Water shortages are expected for users of direct streamflow.

SEVIER RIVER BASIN including BEAVER RIVER

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	XXXXX XXXXX
						2 yrs. ago
<u>UPPER SEVIER RIVER</u>						
(South of Richfield, Utah)						
Big Flat x	10290	5/30	0	0.0	18.5	14.8
Box Creek	9800	5/25	0	0.0	0.0	0.0
Castle Valley	9700	5/24	0	0.0	0.0	0.0
Duck Creek R.S.	8700	5/24	0	0.0	0.0	0.0
Fish Lake	8700	5/25	0	0.0	0.0	0.0
Harris Flat R.S.	7700	5/24	0	0.0	0.0	0.0
Kimberly Mine	9300	5/25	0	0.0	1.2	0.0
Long Valley Jct.	7500	5/24	0	0.0	- -	
Midway Valley	9800	5/26	0	0.0	10.1	0.0
Panguitch Lake	8200	5/24	0	0.0	0.0	0.0
Widtsoe-Escalante #2	9500	5/24	0	0.0	0.0	0.0
Widtsoe-Escalante #3	9500	5/24	0	0.0	0.0	0.0
<u>LOWER SEVIER RIVER</u>						
(including San Pitch)						
Beaver Dams	8000	5/26	0	0.0	0.0	0.0
G.B.R.C. Headquarters	8700	5/31	0	0.0	0.0	0.0
G.B.R.C. Meadows	10000	5/31	3	1.2	20.6	17.8
Gooseberry Reservoir x	8700	5/30	0	0.0	0.0	0.0
Mammoth R.S. - Ctnwd. Crk	8800	5/30	0	0.0	0.0	0.0
Oak Creek	7760	5/31	0	0.0	0.0	0.0
Pine Creek	8700	5/26	0	0.0	0.0	0.0
Shingle Mill	6200	5/26	0	0.0	0.0	0.0
Big Flat	10290	5/30	0	0.0	18.5	14.8
Merchant Valley	8200	5/30	0	0.0	0.0	0.0

PRECIPITATION (Inches)

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. OCT. 1 TO DATE		
		Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
Beaver Dams	8000	5/26	0.80	2.75b	15.70	19.79*	79
Big Flat x	10290	5/30	0.35	3.03*	13.13	21.85*	60
Box Creek	9800	5/25	0.61	2.27b	14.55	18.33b	79
Castle Valley	9700	5/24	0.01	1.90b	14.23	19.99b	71
Duck Creek R.S.	8700	5/24	0.05	1.76*	18.66	21.51*	87
Fish Lake	8700	5/25	0.54	1.50b	10.10	11.54b	88
G.B.R.C. Headquarters	8700	5/31	0.95	2.80	20.57	24.15	85
G.B.R.C. Meadows	10000	5/31	1.15	3.21	25.50	28.30	90
G.B.R.C. Oaks	7655	5/31	0.72	2.22	14.29	16.85	85
Gooseberry Reservoir x	8700	5/30	0.80	2.75*	19.14	23.38*	82
Kimberly Mine	9300	5/25	0.15	3.21*	15.63	25.54*	61
Mammoth R.S. #2 x	8600	5/30	0.80	2.55*	19.41	24.30*	80
Mt. Baldy	9500	5/26	0.75	3.36b	18.40	22.70*	81
Oak Creek	7760	5/31	0.12	- -	16.07	- -	--
Panguitch Lake	8200	5/24	0.00	1.09b	10.57	9.21b	115
Pickle Keg Springs	9600	6/1	0.30	- -	17.90	- -	--
Pine Creek	8700	5/26	0.34	3.99	26.06	30.53b	85
Shingle Mill	6200	5/26	0.34	2.76b	18.45	19.30b	96
Webster Flat	9200	5/26	0.00	2.03	20.08	24.03	84
Widtsoe-Escalante #3	9500	5/24	0.07	2.00*	14.26	17.19*	83
Widtsoe R. S.	7600	5/24	0.04	0.97	5.84	6.34	92
Midway Valley	9800	5/26	0.00	- -	19.46	- -	--
Big Flat	10290	5/30	0.35	3.03*	13.13	21.85*	60
Merchant's Valley	8650	5/30	0.20	- -	11.17	- -	--

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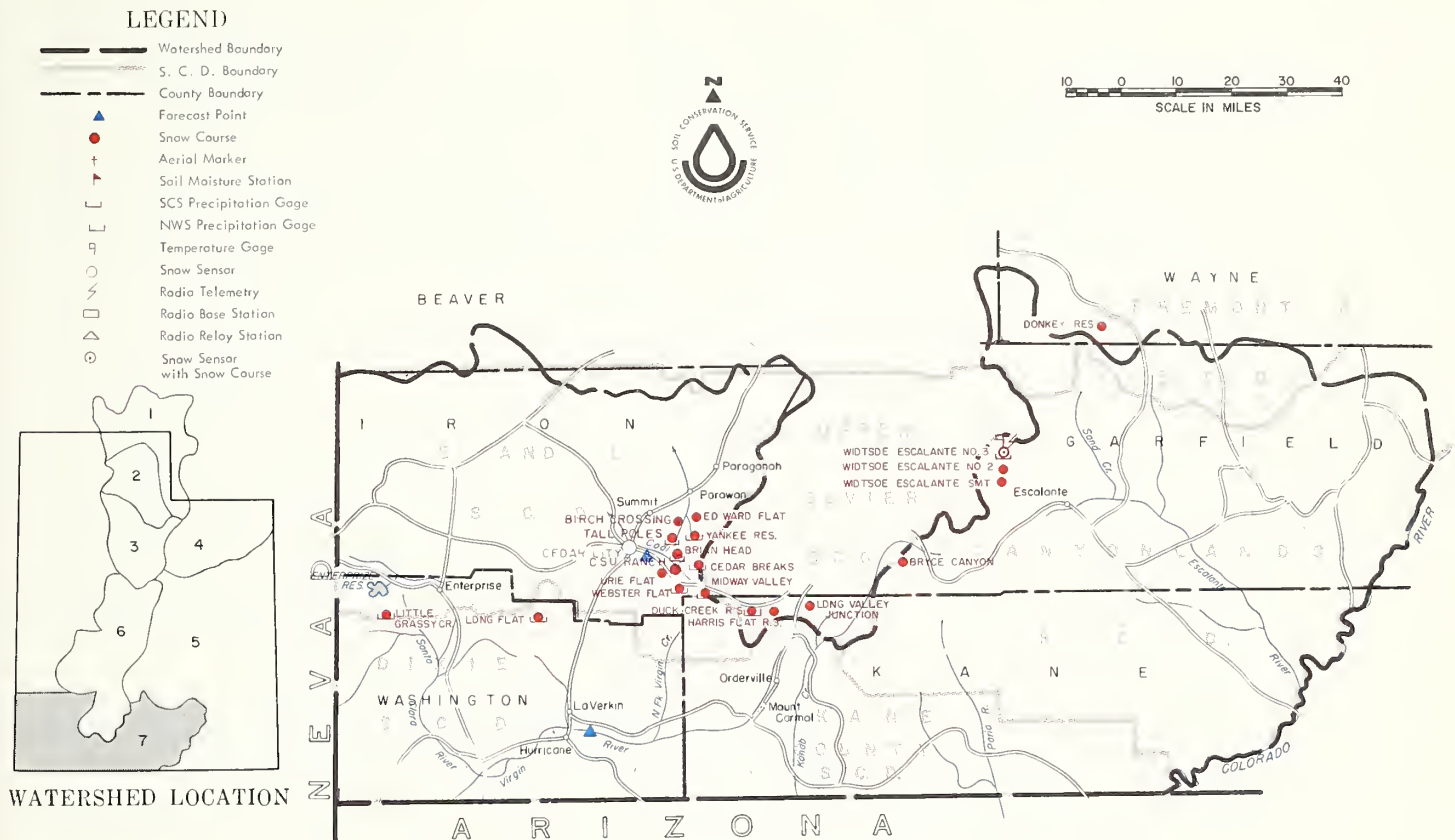


"The Conservation of Water begins with the Snow Survey"

WATER SUPPLY OUTLOOK

EAST GARFIELD, KANE, WASHINGTON and IRON COUNTIES in UTAH

**UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS**



JUNE 1, 1972

Drought conditions continued in May in southern Utah and the Water Supply Outlook is now "very poor".

May precipitation was negligible at most stations and snow cover is completely gone on all snow courses. Lower elevation range feed conditions are poor - grass is drying up before it has enough growth to mature, due to lack of moisture.

Streams are receding rapidly as expected and the lack of May precipitation dropped already low forecasts another 7-11%. The Virgin river is now forecast to flow 7500 acre feet(34%) during the May-June period and Coal Creek 4300 acre feet(39%) during the May-July period. Santa Clara near Pine Valley is now expected to produce about 800 acre feet(33%) during the May-June period.

Water supply shortages are being felt already on most small streams in this area as streams are receding about a month earlier than usual.

EAST GARFIELD, KANE, WASHINGTON & IRON

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	average
<u>ESCALANTE RIVER</u>						2 yrs. ago
Widtsoe-Escalante Smt.	9500	5/24	0	0.0	0.0	0.0
Widtsoe-Escalante #2	9500	5/24	0	0.0	0.0	0.0
Widtsoe-Escalante #3	9500	5/24	0	0.0	0.0	0.0
<u>VIRGIN RIVER & COAL CREEK</u>						
Duck Creek R.S.	8700	5/24	0	0.0	0.0	0.0
Harris Flat x	7000	5/24	0	0.0	0.0	0.0
Midway Valley x	9800	5/26	0	0.0	10.1	0.0
Webster Flat	9200	5/26	0	0.0	0.0	0.0
<u>PAROWAN CREEK</u>						
Tall Poles	8800	5/26	0	0.0	0.0	0.0
Yankee Reservoir	8700	5/26	0	0.0	0.0	0.0
<u>ENTERPRISE TO NEW HARMONY DRAINAGES</u>						
Little Grassy Creek	6100	5/26	0	0.0	0.0	0.0
Long Flat	8000	5/26	0	0.0	0.0	0.0

PRECIPITATION (Inches)

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. OCT. 1 TO DATE		
		Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
<u>ESCALANTE RIVER</u>							
Widtsoe-Escalante #3	9500	5/24	0.07	2.00*	14.26	17.19*	83
<u>VIRGIN RIVER</u>							
Duck Creek R. S.	8700	5/24	0.05	1.76*	18.66	21.51*	87
Webster Flat	9200	5/26	0.00	2.03	20.08	24.03	84
<u>COAL CREEK</u>							
Webster Flat	9200	5/26	0.00	2.03	20.08	24.03	84
<u>PAROWAN CREEK</u>							
Tall Poles	8800	5/26	0.13	- -	17.32	- -	--
Yankee Reservoir	8700	5/26	0.03	1.71b	13.55	15.70b	86
<u>ENTERPRISE TO NEW HARMONY DRAINAGE</u>							
Little Grassy Creek	6100	5/25	0.00	0.80b	13.60	14.54b	94
Long Flat	8000	5/25	0.00	1.44b	11.84	15.29b	77

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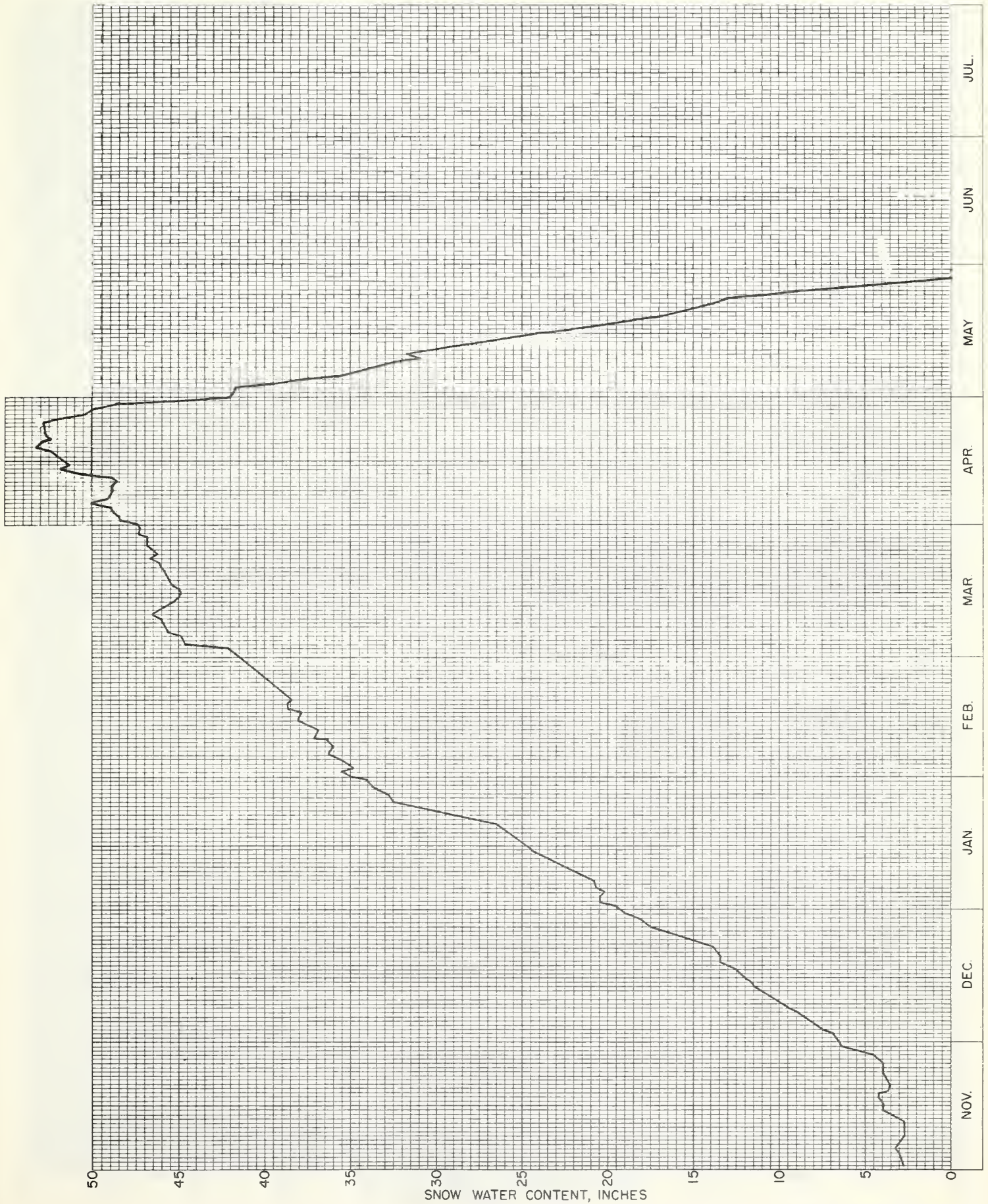
HORSE RIDGE

SNOW PILLOW DATA WATER YEAR _____

No. 11H21

Elev. 8260

Drainage: Lost Creek



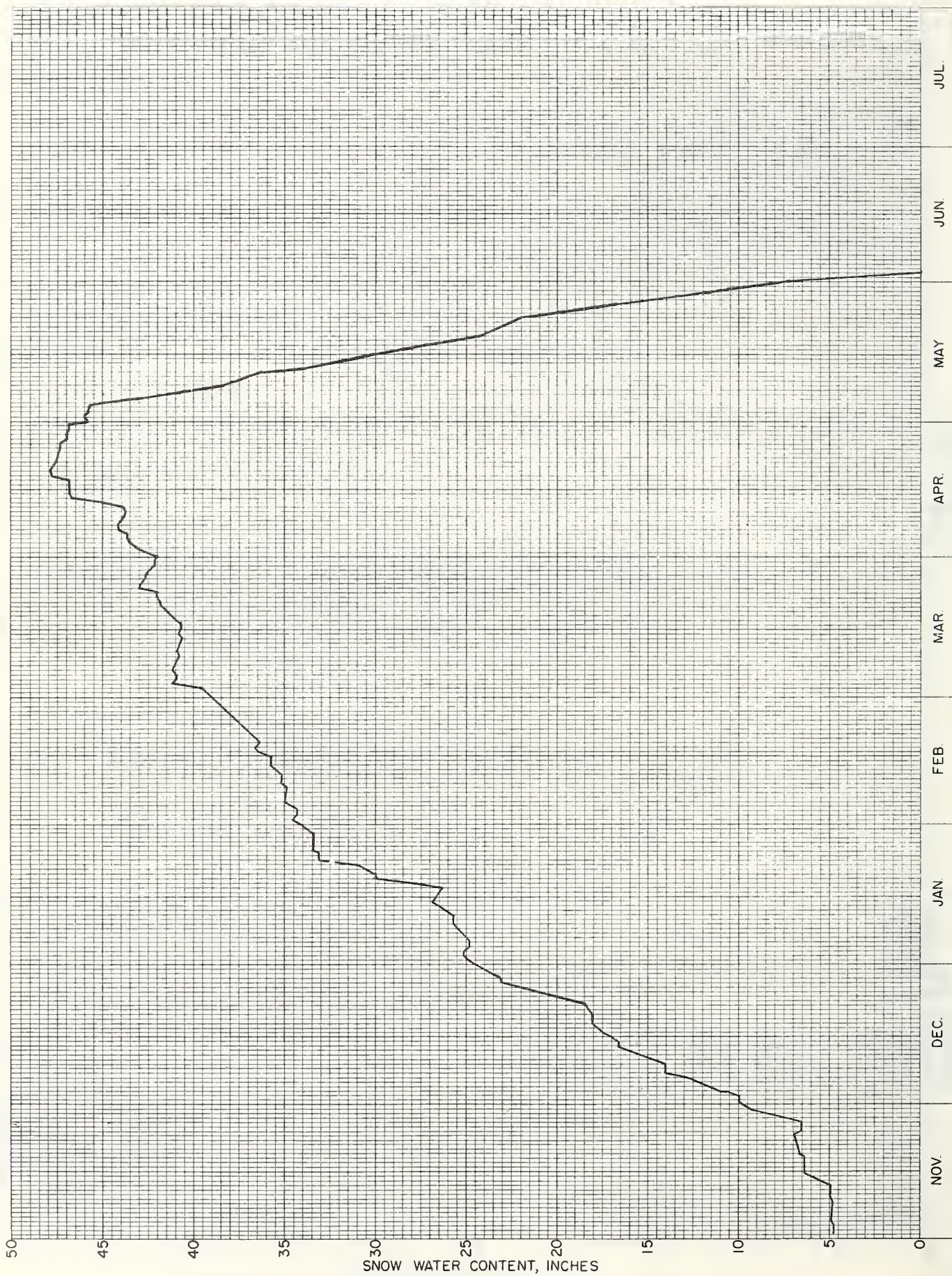
FARMINGTON CANYON (upper)

SNOW PILLOW DATA
WATER YEAR 1972

No. 11J11

Elev. 8000

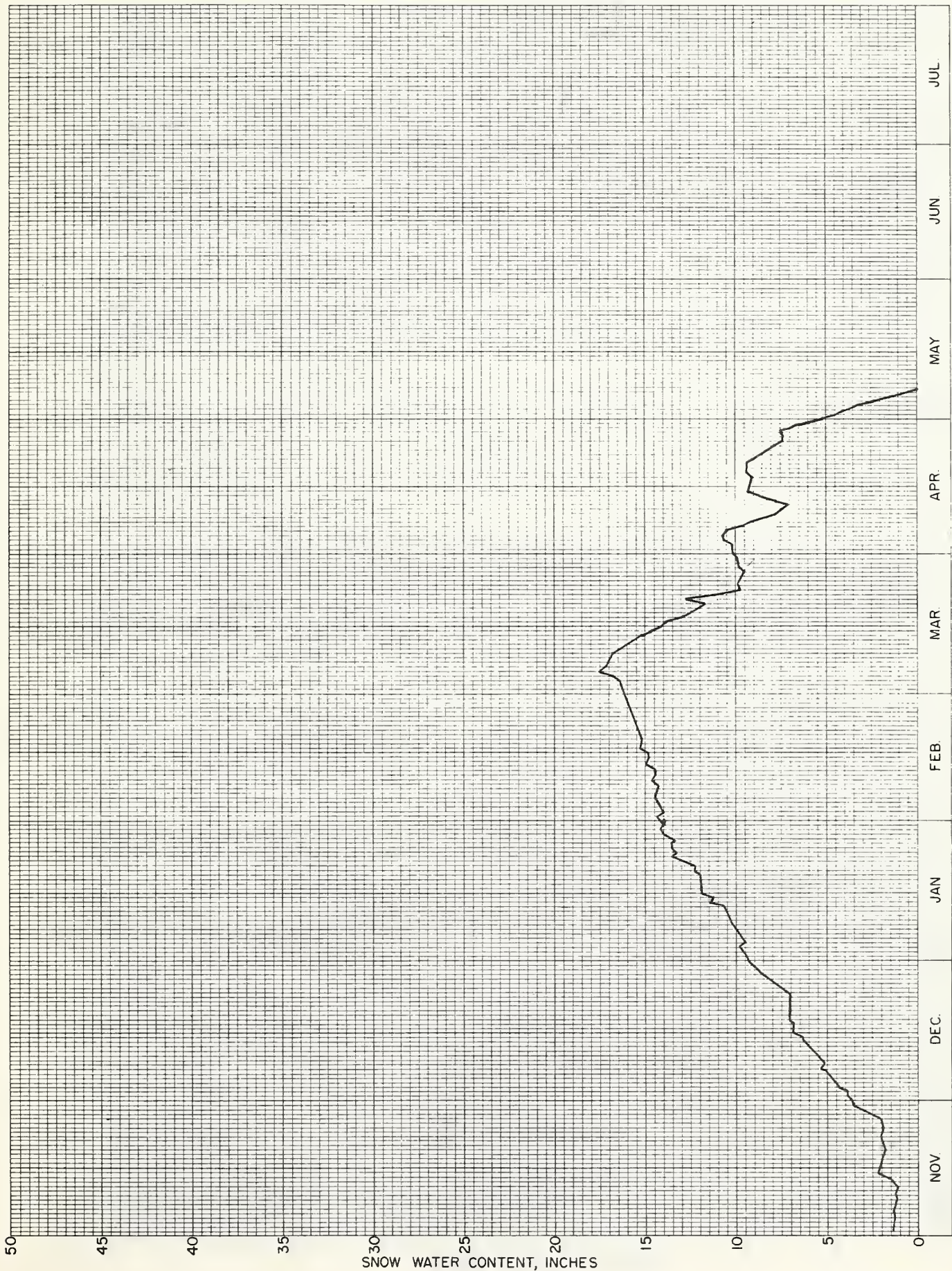
Drainage: Farmington Creek



PARLEY'S CANYON SUMMIT

SNOW PILLOW DATA
WATER YEAR 1972

No. 11J15 Elev. 7500 Drainage: East Canyon Crk. - Weber River



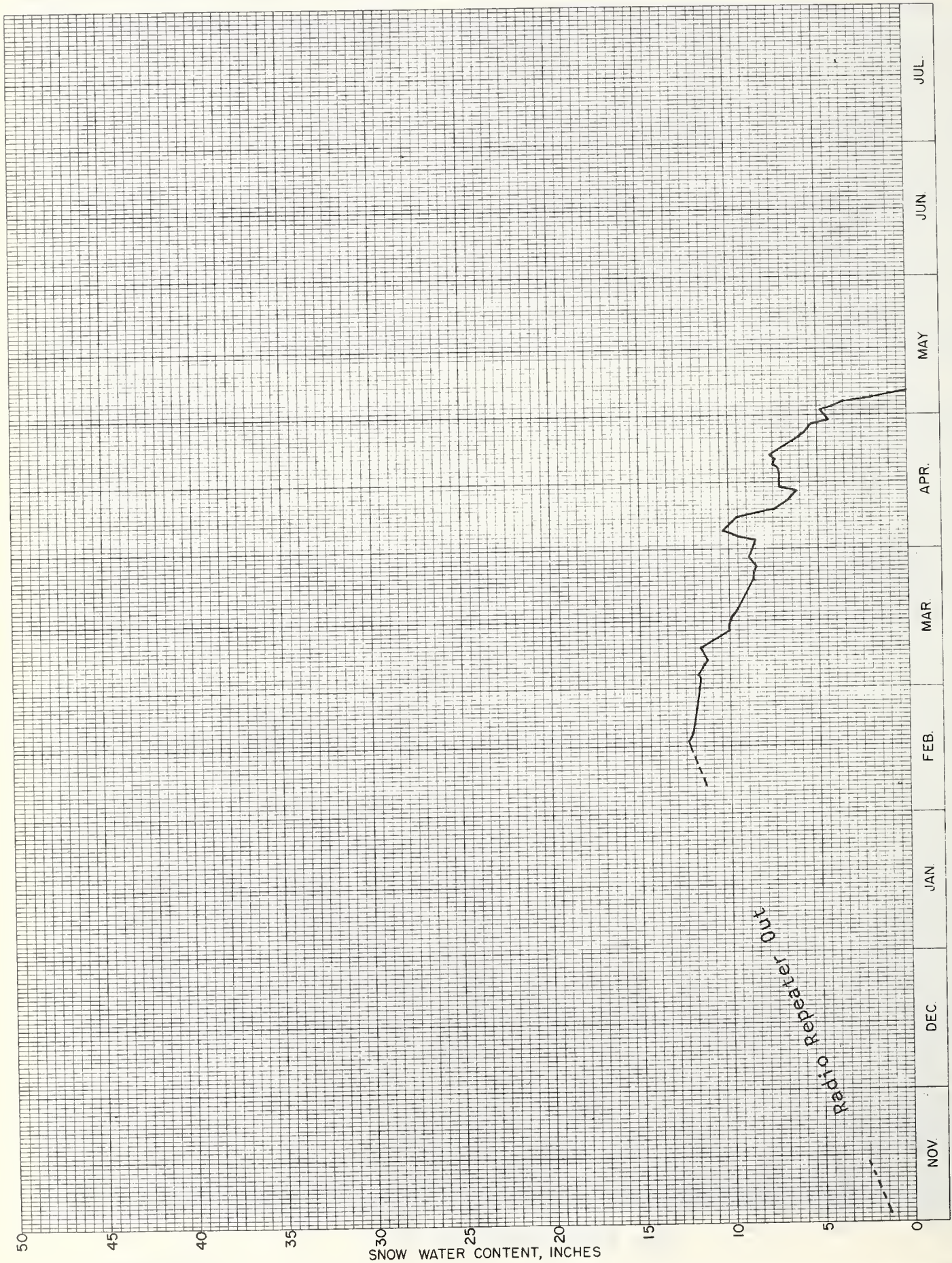
PICKLE KEG SPRINGS

SNOW PILLOW DATA
WATER YEAR 1972

No. 11K39

Elev. 9600

Drainage: Salina Creek



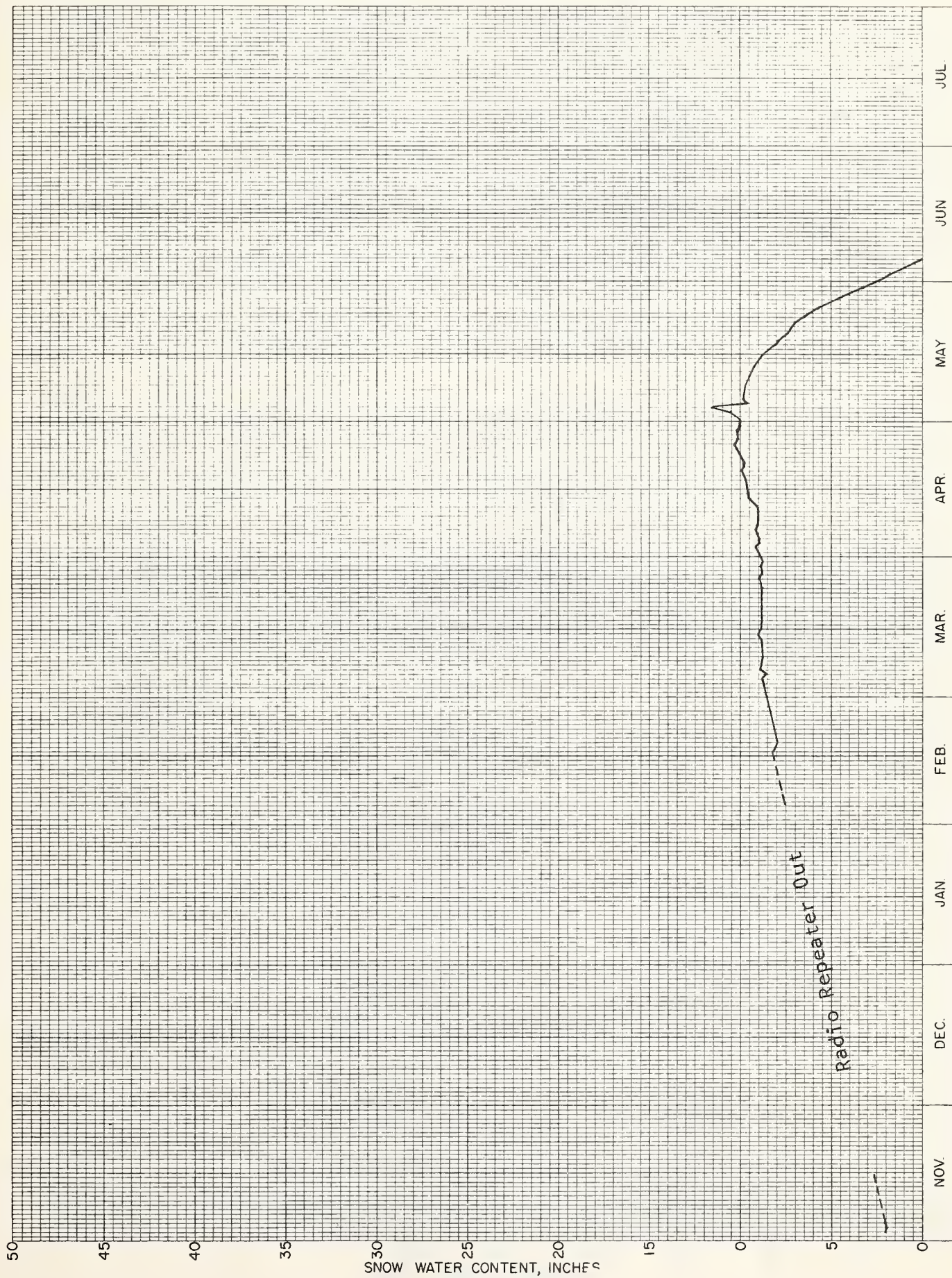
BIG FLAT

SNOW PILLOW DATA
WATER YEAR 1972

No. 12L7

Elev. 10,000

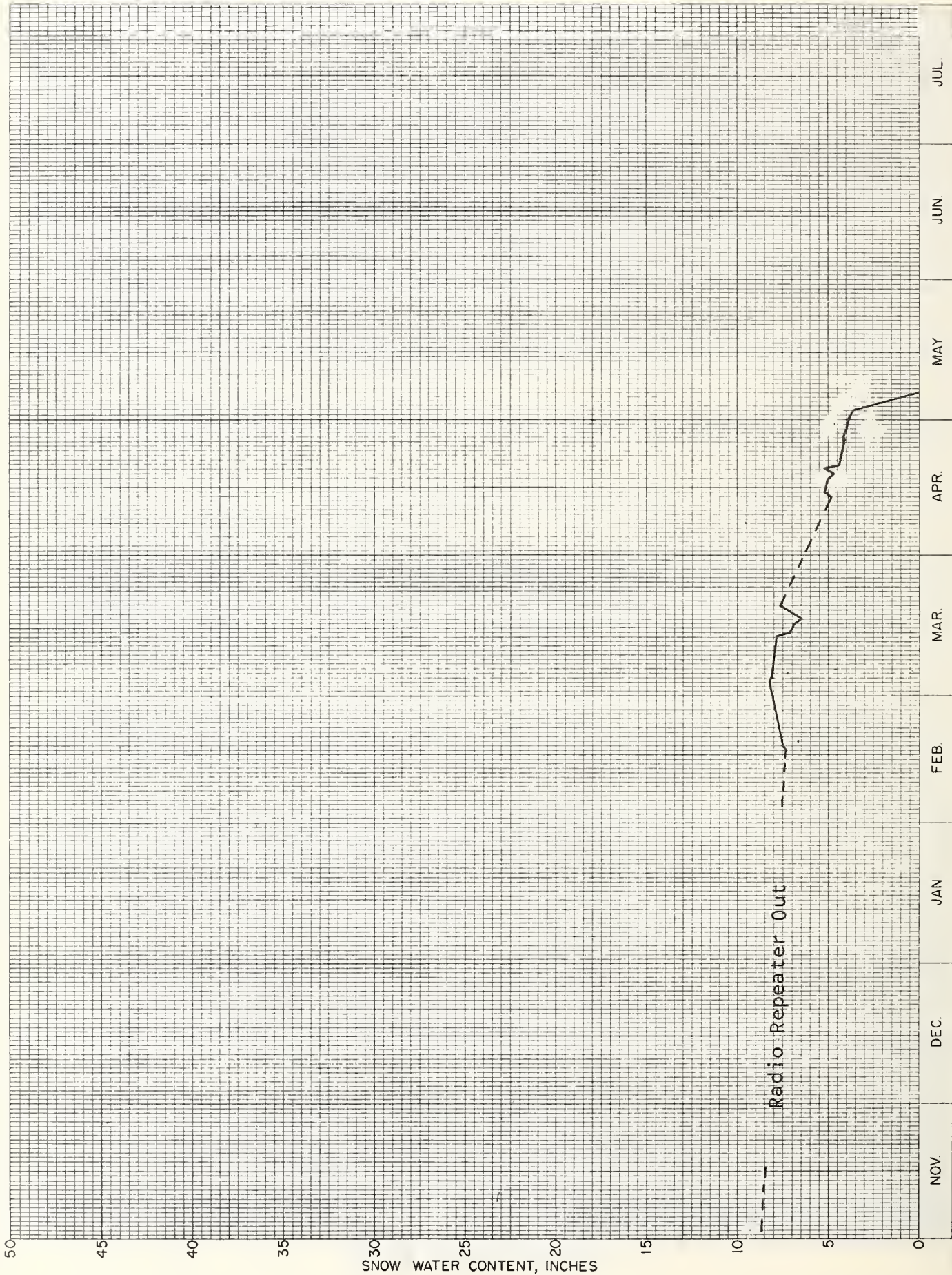
Drainage: Beaver River



WIDTSOE-ESCALANTE #3

SNOW PILLOW DATA
WATER YEAR 1972

No. 11M3 Elev. 9500 Drainage: East Fork-Sevier River



Agencies Cooperating in Utah Snow Surveys

U.S. GOVERNMENT AGENCIES

U.S. Department of Agriculture
Soil Conservation Service
Forest Service
U.S. Department of Commerce
NOAA, National Weather Service
U.S. Department of Interior
Bureau of Reclamation
Geological Survey
National Park Service

STATE AGENCIES

Utah State University
Utah Fish and Game Department
Utah State Department of Natural
Resources, Division of Water Rights
Bear River Commissioner
Price River Commissioner
Provo River Commissioner
Sevier River Commissioners
Spanish Fork River Commissioner
Utah Lake and Jordan River Commissioner

MUNICIPALITIES

Manti
Salt Lake City

ORGANIZED PUBLIC AGENCIES

Beaver River Water Users Association
Board of Canal Presidents - Jordan River
Emery Canal and Reservoir Company
Moon Lake Water Users Association
Ogden River Water Users Association
Provo River Water Users Association
Strawberry Water Users Association
Sevier River Water Users Association

PRIVATE AGENCIES

Kaiser Steel Corporation

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